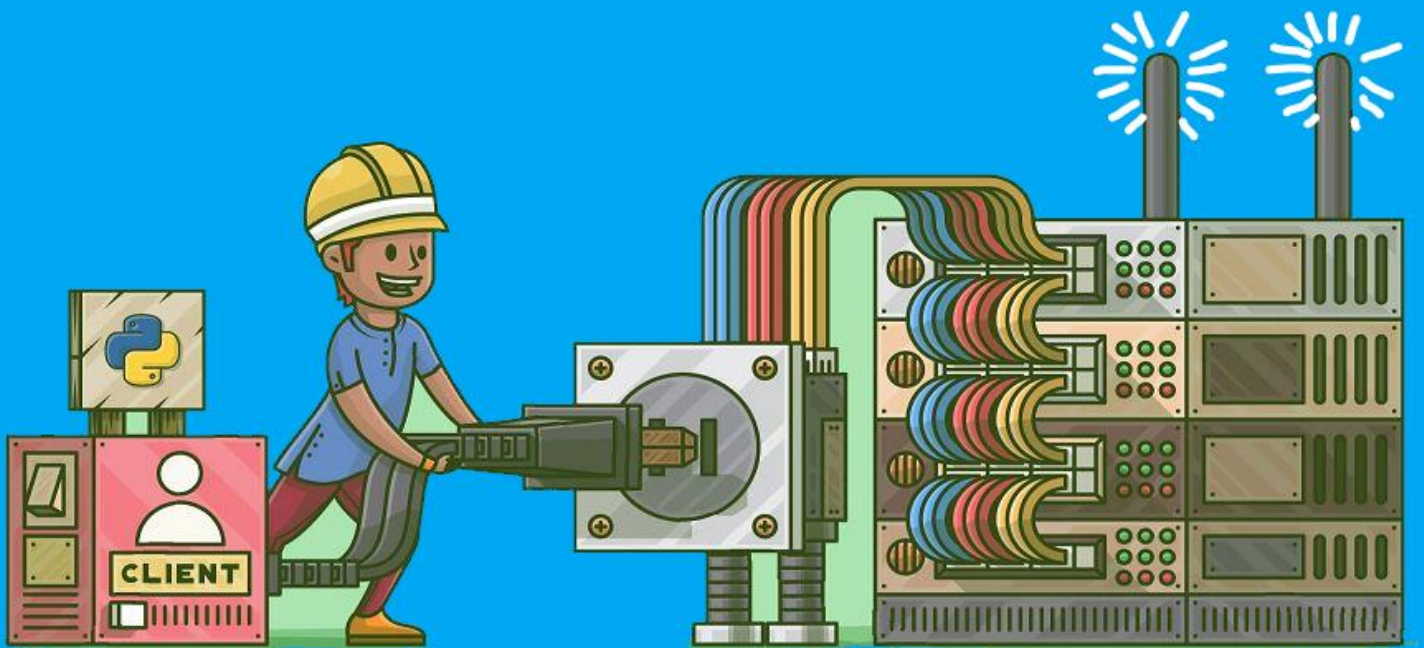


**Mehdi
REHM
RT212**

**DOCUMENTATION
Section : Customer**

**SAE 3.02 - Develop
communicating applications**



Teacher: Sir Frederic DROUHIN
Academic year: 2022-2023

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Introduction

This documentation is a user documentation to know how to install the different tools needed and to use the client. It is better to read the client documentation first than the server documentation.

I. Customer

1. Installation of tools

In order to use the client without problems, you must install the following tools for the "Customer" and "Server" (see screenshot)

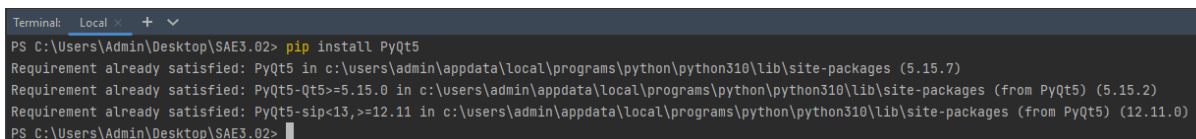
```
import socket
import threading
import sys
from PyQt5.QtCore import *
from PyQt5.QtWidgets import *
import time
import os
import csv
```

Customer

```
import socket
from socket import AF_INET
import platform
import psutil
from ipaddress import IPv4Network
import subprocess
import sys
```

Server

You can install the different tools with the command "pip install 'tool_name'" in the PyCharm terminal (see screenshot below)



```
Terminal: Local + -
PS C:\Users\Admin\Desktop\SAE3.02> pip install PyQt5
Requirement already satisfied: PyQt5 in c:\users\admin\appdata\local\programs\python\python310\lib\site-packages (5.15.7)
Requirement already satisfied: PyQt5-Qt5>=5.15.0 in c:\users\admin\appdata\local\programs\python\python310\lib\site-packages (from PyQt5) (5.15.2)
Requirement already satisfied: PyQt5-sip<13,>=12.11 in c:\users\admin\appdata\local\programs\python\python310\lib\site-packages (from PyQt5) (12.11.0)
PS C:\Users\Admin\Desktop\SAE3.02>
```

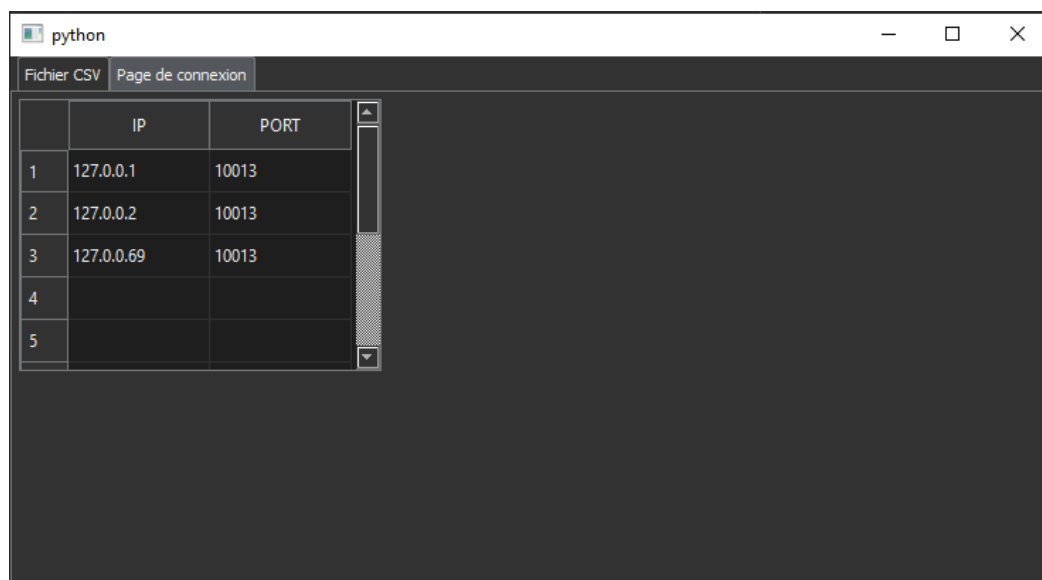
Installation tools

2. Beginning

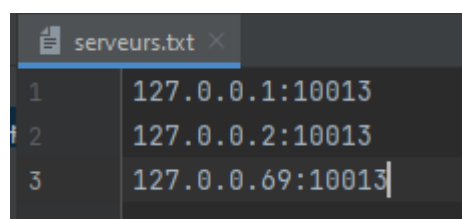
When you start the client, 2 tabs will be displayed. It is best to start the server and then the client.

A CSV tab :

The CSV tab contains a list of IPs and their ports. This list comes from a .txt file, this file contains IP addresses and ports separated by colons, for example "127.0.0.1:10013". You can modify this file by respecting the format (See .txt file capture) but you must restart the client. The file must be in the same directory as the client and the server.



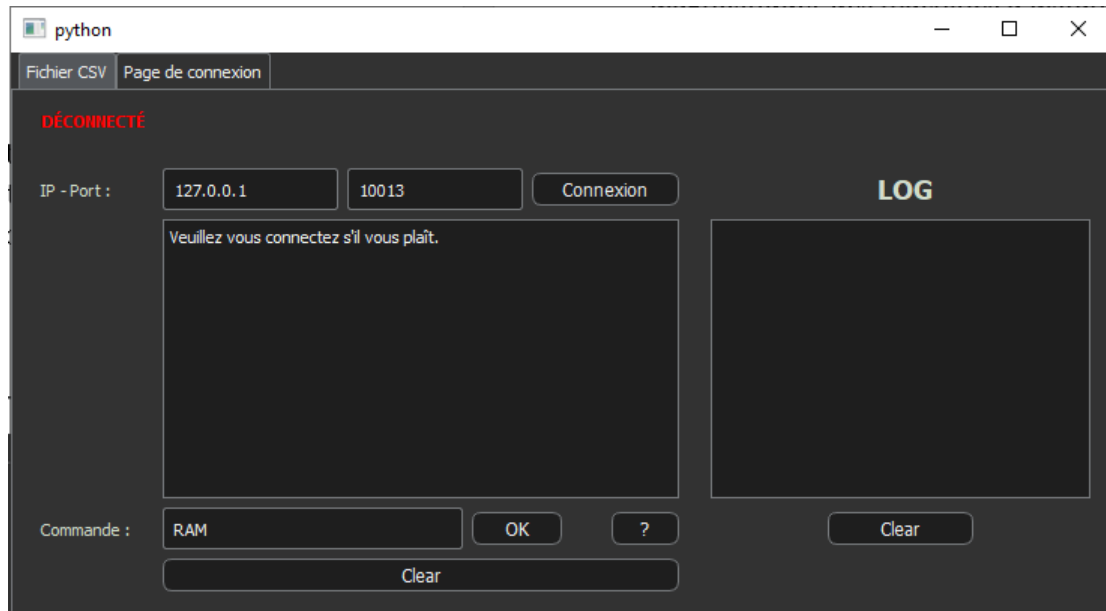
CSV tab



.txt file

A login page tab:

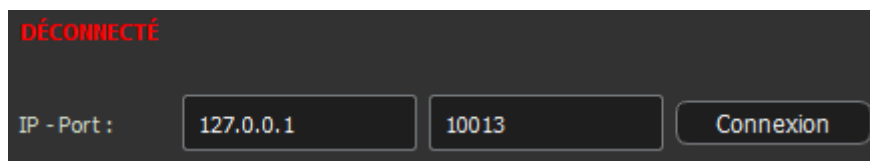
The login page (see screenshot) will allow us to connect to a server (the server must be started) and send system commands in order to monitor and diagnose remote machines. We will see how to use this page later in this documentation.



Login page tab

3. Login

To connect to a machine, you must fill in the IP and Port fields. You put the IP address and the port of your server then you click on the button "Connection". A status is displayed at the top right of the page, if the status shows "Disconnected" it means you are not connected to the server. If the status shows "Connected", you are connected to the target machine (see screenshot).

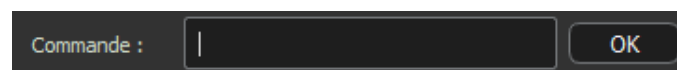


The screenshot shows a dark-themed login interface. At the top left, the status 'DÉCONNECTÉ' is displayed in red. Below it, there is a label 'IP - Port :'. To the right of this label are two input fields: the first contains '127.0.0.1' and the second contains '10013'. To the right of these fields is a button labeled 'Connexion'.

Login menu

4. Send order

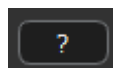
After connecting a machine, you can send commands. To do this, you must fill in the "Command" field and then click on "OK" to send the command to the server (see screenshot).



The screenshot shows a dark-themed command input interface. It features a label 'Commande :', an empty text input field, and an 'OK' button to the right.

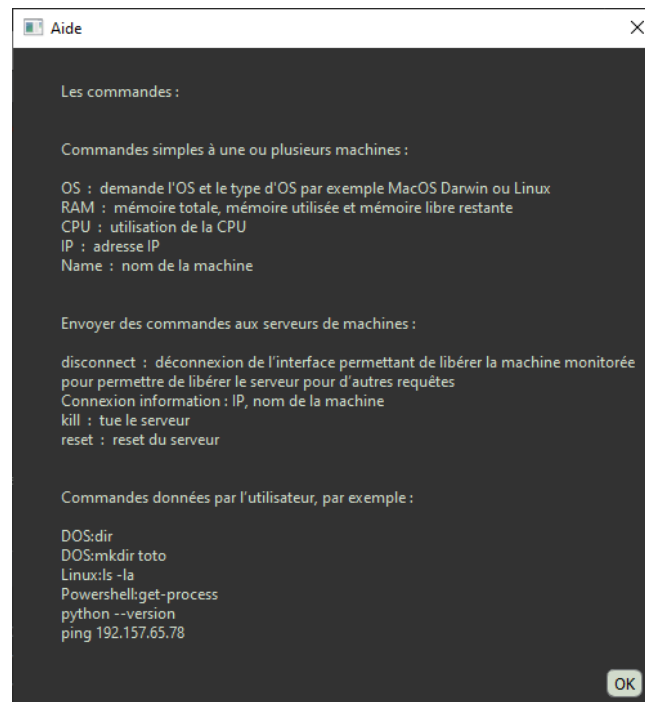
Order

In order to know what commands you can send, there is a help button "?" (See screenshot) which will show you a window with all the commands you can send to the remote server.



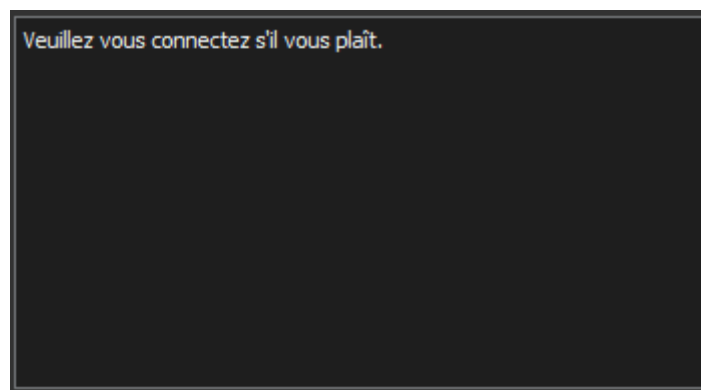
Button « ? »

Here are all the commands (see screenshot).



The orders

The commands will be displayed in the result window in the middle of the page.



Order display